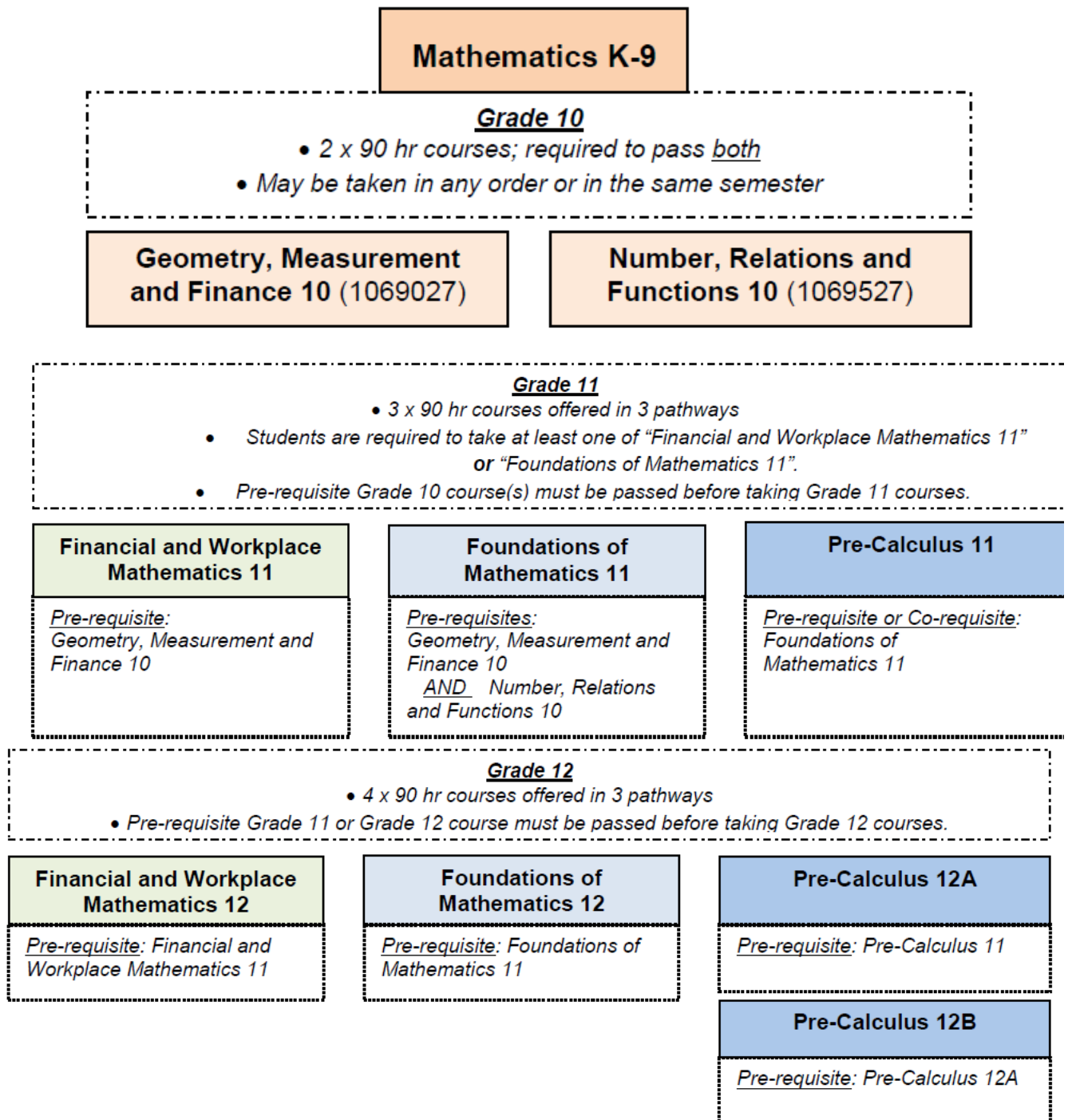


Welcome to
Geometry,
Measurement,
and Finance 10

This diagram shows you what math courses you NEED in order to graduate....it also shows you the math courses that are available to you if you wish to take them



To succeed this semester:

- Pay attention during lessons
- Ask for help when you need it (don't wait too long)
- Do your best quality work!
- Complete your assigned work on time

Extra Help: Tuesday's and Thursday's at lunch hour

Check out our class website: <http://belyea.wikispaces.com>

- Class notes/lessons
- Assignments
- Calendar
 - Daily homework Assignments
 - Upcoming test or quiz dates
 - Assignment due dates

Topics to be covered:

Unit 1: Numbers (Finance problems; involving income, interest, and credit)

Unit 2: Measurement (SI units & imperial units, Volume, and Surface Area)

Unit 3: Geometry (Pythagorean Theorem, Trigonometric ratios, parallel/perpendicular lines, angles)

Materials Required:

Binder with loose-leaf

Scientific calculator

Pencils/Eraser

Graph paper

Geometry Set

Exercise Book (no coils)

Textbook:

MathWorks 10, Pacific Educational Press. Students are assigned numbered textbooks and are responsible for returning the same textbook, in the same condition, at the end of the course. If the student does not return the book at the end of the course, then the cost of replacing the book must be paid to the school (**approximately \$65.00**).

GMF Math 10 Units & Outcomes

<i>February</i>	<i>March</i>	<i>April-May</i>	<i>January</i>
Unit 1: Numbers (N1-5): (4 weeks)	Unit 2: Measurement (M1-5): (4 weeks)	Unit 3: Geometry (G1-5): (8 weeks)	Exam Review: (1 week)
N1-N5 Solve finance problems using proportional reasoning, demonstrate an understanding of income, compound interest, financial institution services and credit options.	M1-M5 Demonstrate an understanding of SI units & imperial units, solve problems in linear, 2D (area) and 3D (volume)	G1-G5 Apply the Pythagorean theorem and trigonometric ratios, solve problems involving parallel, perpendicular lines and the angles formed between them.	A1 & G1 Algebra (A1) and Geometry (G1) Develop Algebraic reasoning & analyze puzzles and games (covered throughout semester)

Geometry, Measurement, and Finance 10

Unit 1: Numbers (Finance)

First outcome to be covered:

N1: Solve problems that involve unit pricing, currency exchange, using proportional reasoning.

- ratios, proportions
- shopping, calculating taxes
- estimation, discounts, shipping costs
- product quality and practicality

Read over the following problem... How would you find the answer?

MATH ON THE JOB

"In 1997, I moved back to the old family homestead, turning the place into an organic, small plot gardening, herb farm and an informal learning centre. We grow food, flowers, garlic, herbs, and wheatgrass," says Pam Trenholm. Pam is a farmer who operates Brighton Botanicals, located near Hartland, New Brunswick. She attended Hartland High School and later took business courses at Carleton County Vocational School in Woodstock, New Brunswick.

Pam's job includes ordering seeds, selling produce, and planting and caring for crops. Pam needs to fertilize a crop with an organic liquid fertilizer that is mixed with water. Five hundred mL of fertilizer is mixed with 60 L of water. If Pam is using 750 mL of fertilizer, how much water does she need to add? How can Pam use proportional reasoning to solve this problem?



Pam (right) and her intern check plants to see if they have received enough nutrients.

500 ml fert
750 ml fert

60 L water
? (90)

$$\frac{500 \text{ ml}}{60 \text{ L}} = \frac{750}{x}$$

$$750 \times \frac{60}{500} = \frac{x}{750} \times 750$$

$$90 = x$$